

Landscaping for Protection of Watersheds and Riparian Areas

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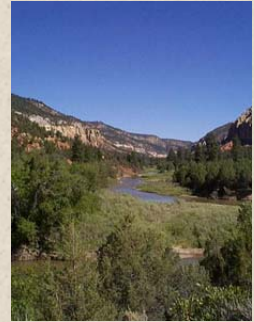


Carle Facciolo
Landscape Designer



Watershed

- *an area of land that drains into a stream, river, wetland, lake, pond or harbor*
- *think of a watershed as a funnel*



Riparian area = shoreline

- a naturally vegetated area bordering a lake, pond, stream or other wetland



Benefits of a shoreline planting



- Intercepts nutrients before they reach water
- Reduces erosion and flood risk by stabilizing shoreline
- Filters sediments

Benefits of a shoreline planting



- Moderates water temperature
- Attracts wildlife
- Aesthetics – frames view of water body

Comprehensive Shoreland Protection Act

sets minimum standards and requirements for the development, use, and subdivision of land within 250 feet of the water's edge

- No fertilizer or pesticide within 25 ft. of the water's edge
- From 25 to 250 ft. of the water's edge, use only low phosphate, slow-release fertilizer

Lawn care that is safe for land and water



- **Test soil** and maintain pH of 6.2-6.5
- **Seed** at high rate, use seed that is suitable for location
- **Adjust mowing height** to 2.5-3"

Benefits of landscaping with native plants

Few maintenance needs

- Fertility
- Water
- Pruning
- Mulch



Benefits of landscaping with native plants

Wildlife – insects, amphibians, reptiles, birds and mammals

Native landscape plants provide:

- Berries, seeds & nuts
- Shelter
- Nesting habitat
- Travel corridor



Sugar Maple
Acer saccharum

trees for watersheds

Sugar Maple *Acer saccharum*



trees for watersheds

Red Maple *Acer rubrum*



trees for watersheds

Serviceberry
Amelanchier sp.



trees for watersheds

Serviceberry
Amelanchier sp.



trees for watersheds

Serviceberry
Amelanchier sp.



trees for watersheds

White Pine
Pinus strobus



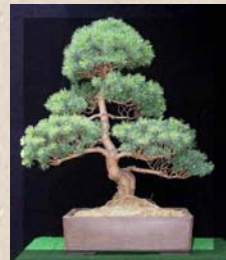
trees for watersheds

White Pine
Pinus strobus



trees for watersheds

White Pine
Pinus strobus



Hemlock
Tsuga canadensis



trees for watersheds

Hemlock
Tsuga canadensis



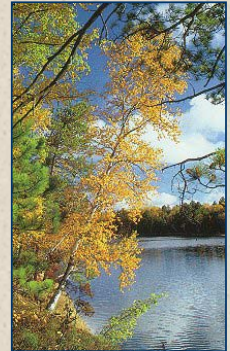
trees for watersheds

Balsam Fir
Abies balsamea



trees for watersheds

Paper Birch
Betula papyrifera



trees for watersheds

Paper Birch
Betula papyrifera



trees for watersheds

Paper
Birch
Betula papyrifera



trees for watersheds

Gray Dogwood
Cornus racemosa



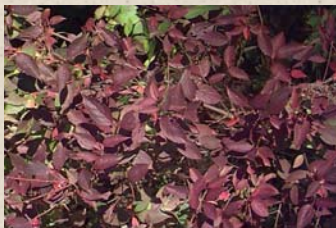
shrubs for watersheds

Gray
Dogwood
*Cornus
racemosa*



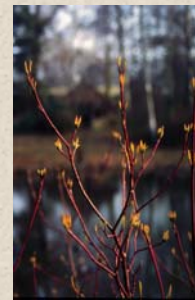
shrubs for watersheds

Gray Dogwood
Cornus racemosa



shrubs for watersheds

Redosier Dogwood
Cornus sericea



shrubs for watersheds

Redosier Dogwood
Cornus sericea



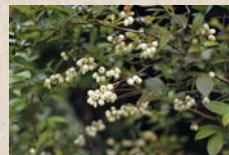
shrubs for watersheds

Redosier Dogwood
Cornus sericea



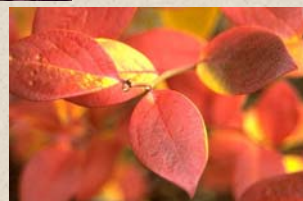
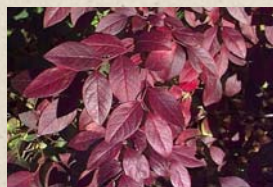
shrubs for watersheds

Highbush Blueberry
Vaccinium corymbosum



shrubs for watersheds

Highbush Blueberry
Vaccinium corymbosum



shrubs for watersheds

Viburnum
Viburnum sp.



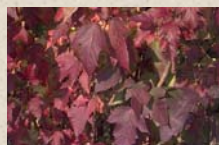
shrubs for watersheds

Viburnum
Viburnum sp.



shrubs for watersheds

Viburnum
Viburnum sp.



shrubs for watersheds

Inkberry
Ilex glabra



shrubs for watersheds

Inkberry
Ilex glabra



shrubs for watersheds

Winterberry
Ilex verticillata



shrubs for watersheds

Winterberry
Ilex verticillata



shrubs for watersheds

Summersweet
Clethra alnifolia



shrubs for watersheds

Summersweet
Clethra alnifolia



shrubs for watersheds

Steeplebush
Spiraea tomentosa



shrubs for watersheds

Sheep Laurel
Kalmia angustifolia



shrubs for watersheds

Bearberry
Arctostaphylos uva-ursi



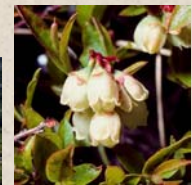
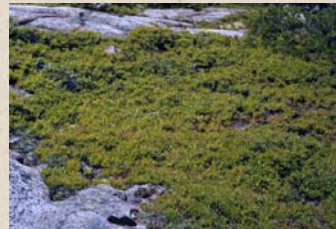
ground covers, vines or perennials for watersheds

Bearberry
Arctostaphylos uva-ursi



ground covers, vines or perennials for watersheds

Lowbush Blueberry
Vaccinium angustifolium



ground covers for watersheds

Lowbush Blueberry
Vaccinium angustifolium



Bunchberry
Cornus canadensis



ground covers, vines & perennials for watersheds

Bunchberry *Cornus canadensis*



ground covers, vines and perennials for watersheds

Virginia Creeper *Parthenocissus quinquefolia*



ground covers, vines and perennials for watersheds

Virginia Creeper *Parthenocissus quinquefolia*



ground covers, vines and perennials for watersheds

Ferns



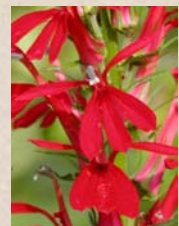
ground covers, vines and perennials for watersheds

Ferns



ground covers, vines and perennials for watersheds

Cardinal Flower *Lobelia cardinalis*



ground covers, vines and perennials for watersheds

False Blue Indigo
Baptisia australis



ground covers, vines or perennials for watersheds

New England Asters
Aster novae-angliae



ground covers, vines or perennials for watersheds

Water-friendly landscaping

- Reduce P fertilizer and pesticide use (comply with SPA if w/in 250 ft. of shoreline)
- Find an alternative to a large lawn
- Plant native or other low maint. species
- Limit land clearing, do not clean the woods

Thank you

UNH Cooperative Extension
1-877-EXT-GROW
www.ceinfo.unh.edu

Belknap Landscape Company
603-528-2798
www.belknaplandscape.com